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(57) Abstract		į
A custom page server is provided with user prefere	nces or	ganized into templates stored in compact data structures and the live da
used to fill the templates stored local to the page server to	which is user te	s handing user request for custom pages. One process is executed on the mplate for the user making the request, where the user template is either
generated from user preference or retrieved from a cache	of rece	ntly used user templates. Each user process is provided access to a large
giving the user a custom selection of stock quotes, news h	eadline	ded to fill any user template. Typically, the pages served are news pages, sports scores, weather, and the like. With the live data stored in a local
shared memory, any custom page can be built within the	page ser	ver, eliminating the need to make requests from other servers for portion (random access memory) and disk storage, in many computer systems,
is faster to store all the live data in RAM.		
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DYNAMIC PAGE GENERATOR

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15 BACKGROUND OF THE INVENTION

The present invention relates to the field of customized information presentation. More specifically, one embodiment of the invention provides a custom page server which can quickly serve custom pages and is scalable to handle 20 many users simultaneously.

Web servers for serving static documents ("Web pages") over the global Internet are known. While static documents are useful in many applications where the information to be presented to each requesting user is the 25 same, some applications require customization to appeal to users. For example, in presenting news to users, custom pages present news which is more relevant to the requesting users than static pages. With static pages, a user will often have to scroll through many topics not of interest to that user to say and get to the information of interest. With custom pages, the information is filtered according to each user's interest.

is known, however known systems do not scale well. One method of serving custom pages is to execute a script, such as a CGI (Common Gateway Interface) script, or other program to collect the information necessary to generate the custom page. For example, if the custom page is a news page containing stock quotes, sports scores and weather, the script might poll a

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quote server to obtain the quotes of interest, poll a sports score server to obtain the scores of interest and poll a weather server to obtain the weather. With this information, the server generates the custom page and returns it to the 5 user. This approach is useful where there are not many many requestors and where the attendant delay is acceptable to be a users. While it may be the case that carrent users are, who we willing to wait while pages load in their browsers, growing impatience; with: waiting: will: turn: users; away: from such | 100 | 100 10 servers, especially asauses increases, and to the epon add you to the One approach to avoiding long waits is to transfer the custom information in non-real-time, soo that the informations is stored local to the user as it arrives and is presented to the user one request. La disadvantage of such a 15 systemmist that the networks used by the user become clogged with datas continually streaming to the user and require large amounts of local storage. Another disadvantage is that the locally scored information will become out of date as the server receives new datava a week of these west grain arms file or any or 20 has From the above it is seen that an improved system of for delivering custom pages is needed. For the state of t

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SUMMARY OF THE INVENTION

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An improved customepagesserver is provided by virtue of the present invention: In one embodiment, user preferences 5 are organized into templates stored in compact data structures and the live data used to fill the templates is stored local to the page server which is handing user requests for custom pages. One process is executed on the page server for every request. The process is provided a userstemplate for the user 10 making the request, where the user template is either generated from user preferences or retrieved from a cache of recently used user templates. Each user process is provided access to a large region of shared memory which contains all all of the live data needed to fill any userstemplate. Typically, 15 the pages served are news pages, giving the user accustom of the left selection of stock quotes, news headlines, sports scores, weather, and the dike. With the dive data stored in aclocal pass shared memory, any custom page can be built within the page of f server, eliminating the need to make requests from other serves 20 servers for portions of the live data: Whiles the shared memory might include RAM (random access memory) and disk of access memory storage, in many computer systems, it is faster to store all the live data in RAM.

If the volume of requests becomes too great for one 25 page server to handle, the system is easily scaled by adding additional page servers. Each page server maintains its own copy of the live data in its shared memory, and needs to maintain only the user templates for the requests it is handling, so no communication between page servers is needed.

A further understanding of the nature and advantages of the inventions herein may be realized by reference to the remaining portions of the specification and the attached drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram of a client-server architecture according to one embodiment of the present invention;

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FIG. 2 is a schematic diagram showing how a user's custom page is generated from a user configuration, a global template and live data.

FIG. 3 is an illustration of a global front page 5 template as might be used to generate user templates.

FIG. 4 is an illustration of a user template generated from the global front page template of FIG. 3 as might be used to generate a custom user page.

FIG. 5 is an illustration of a user page generated 10 using the global template of FIG. 4.

FIG. 6 is an Illustration of how intelligent defaults are selected.

Two appendices are included at the end of this description. Appendix A is a full listing of the user 15 template shown in part in FIG.4. Appendix B is an HTML source code listing of the HTML page used to generate the browser display shown in FIG. 5.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

20 FIG. 1 shows a client-server system 100 which is used to display custom news pages. A custom news page is displayed on a browser 102 which obtains the page from a page server 104 via Internet 106. While only one browser 102 is shown, a typical system will have many browsers connecting and 25 disconnecting to the system.

The art of client-server systems using HTTP
(HyperText Transport Protocol) messaging or other protocols is
well known and will not be addressed in detail here.
Essentially, browser 102 makes a request for a particular page
30 by specifying a Uniform Resource Locator ("URL") for the page.
In the example shown in FIG. 1, the request is directed to
the URL "http:/my.yahoo.com/". Normally, this URL is directed
to the root directory of a machine named my.yahoo.com. As is
the convention in Internet communications, browser 102 submits
35 the domain portion ("my.yahoo.com") of the URL to a name
server, such as name server 108, to determine an actual
address for the page server 104. Name server 108 returns an
IP (Internet Protocol) address to browser 102 directing it to

a page server 104. Where multiple page servers 104 are used, name server 108 returns IP addresses in a round-robin fashion to distribute the load over multiple page servers.

Alternatively, name server 108 might distribute the load more 5 deterministic by tracking browser addresses and hashing the browser address to select a page server 104. It is deterministic in that any given browser always accesses the same page server 104. This allows for more efficient caching of user templates, since more cache hits are likely where a 10 given browser always returns to one page server.

When a page server receives the URL for its root directory, it interprets that as a request for the user's custom summary page. The user is determined not from the URL, but from a "cookie" provided by browser 102 with the URL.

15 Cookies are strings of data stored by browsers and sent along with any request to a URL having a domain associated with the cookie.

Page servers 104 obtain the live data from many disparate sources and reformat the data into a form suitable 20 for use by the page server. Page servers 104 are coupled, via a network, to edit servers 112, which are used when a user changes his or her user template. The user templates are stored in a user configuration database 116 and are stored and provided to edit servers by a network appliance 114 written 25 for this purpose. Network appliance 114 is a process tuned to quickly locate files in large directories (N400 files/directory) and return them to the edit servers or page servers. One embodiment of network appliance 114 is the F330 fault-tolerant scalable server supplied by Network Appliance, 30 of Mountain View, California.

In a specific embodiment, page servers 104 are microcomputers running the Unix® operating system with 64, to 128 megabytes of shared memory, page servers 104 and edit servers 112 are coupled using TCP/IP (Transport Control

35 Protocol/Internet Protocol) and the user configuration database 116 is a Unix file structure which stores each user configuration in a text file. The particular file used by a user is a combination of the user's user name and a hash

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result, to allow for quick access when many user configurations are stored. For example, the user configuration for summary "front" page for a user "ash802" might be stored at /de/13/y.ash802, where "de" and "13" are 5 hash results of a hash of the user name "ash802".

FIG. 2 shows in more detail the generation of a custom page for a user, using a front page generator 200 and page server 104. Front page generator 200 generates a user template 202 from a global front page template 204 and a user 10 configuration record 206. FIG. 3 shows an example of a global front page template. User configuration record 206 is a record selected from user configuration database 116. The record might have been obtained from a cache, but in the preferred embodiment, the records are not cached, the user 15 templates are.

Page server 104 is shown comprising a page generator 210, a shared memory 212 for storing live data and a cache 214 for caching user templates such as user template 202. Page generator 210 generates a custom front page 218 from a user 20 template and the five data stored in shared memory 212. Although not shown, custom pages other than the front page can be generated in a similar fashion. Using user templates and a shared memory for the live data, page server 104 can quickly build custom pages in response to a user request. Where the 25 user template is cached, the page can be generated entirely within page server 104.

Shared memory 212 is organized as a set of memory mapped files. With memory mapped files, the operating system maintains the data in permanent storage, but permanently 30 caches the files in shared memory 212. This allows for quick recovery should a page server crash, since all of the shared memory can simply be reloaded from the permanent storage. This is a great feature from a user convenience standpoint, since the user will never be faced with a situation where they 35 have to wait for a server to rebuild a page for them by querying the various data providing servers, such as sports server 230, stock server 232 and news server 234. As should be apparent from this description and FIG. 2, page generator

210 can generate custom front page 218 much more quickly using shared memory 212 as compared with using servers 230, 232, 234 and page template 202. One reason for this is that the time it takes to retrieve data from shared memory 212 does not 5 appreciably increase relative to the bandwidth delay time when more data is retrieved. For example, if stock server 232 were queried for each individual stock quote, a page with fifty stock quotes might take ten times as long to generate as a page with five stock quotes.

One aspect of the present invention is the realization that every piece of information a person can request on a page is storable in a shared memory closely coupled to a page generator. For example, page server 104 shown in FIG. 2 can accommodate 65,000 different symbols for 15 which quotes are provided. In one embodiment, all of the stock information for all 65,000 symbols is stored in a 13 to 14 megabytes section of the shared memory. Where shared memory 212 is a 64MB or 128MB memory, this leaves sufficient room for other data, such as news headlines, sport scores, and 20 memory used by the operating system for each process running on page server 104. In some embodiments, shared memory 212 is large enough to also accommodate more than just news For example, news summaries (as described further in connection with FIG. 5) can be stored in shared memory 212 - ಅದೆರದದ ಕು. ೯ ಸಕ್ಕಾರ್ಯರ ಸಂಕರ ತಿ.:

As shown in FIG. 2, the user's front page template

202 does not need to be generated each time, but rather is

stored in cache 214. In a preferred embodiment, user

templates are stored in cache 214 for long enough to be

30 reused. Some users might choose to access their front page
only infrequently, while others might choose to access their
front page hourly. Since the pages are customized and
dynamic, the user would see different information each time,
but the same user template would be used each time. Of

35 course, when the user edits his or her template, any cached
copy of a user template is flushed. A garbage-collection
process may also flush the cache of user pages which have been
inactive for several days. In one implementation, cache 214

would accommodate 60,000 to 70,000 user templates. Where a particular page server is assigned on a random round robin basis, multiple page servers may cache their own copy of a given user template; but where a user is directed always to a 5 particular server (except in the case where the particular server fails and a secondary server is used), that page server will be the only one which needs to cache that users user template. Even where the round robin name server scheme is used, some browsers may cache IP addresses, even longer than 10 the specified "time to live" variable associated with the IP address, in order to save the time required to obtain an IP address each time. With such a browser, the user is effectively directed to the same page server each time and the server side of the page serving system does not need to direct 15 users to particular page servers. With newer browsers, however, the "time to live" variable is honored and new requests are made for TP addresses after the "time to live" In these cases, if the assignment of a user to a single pagesserver is desired, name server 108 (see FIG. 1) 20 will use the user name from the provided cookie or the user's IP address to assign a page server based on a hash of the user name or IP address maket from dans or i i patretau urra FIG. 3 is an illustration of global user template 204. Global user template 204 is an HTML (HyperText Markup 25 Language) document with additional tags as placeholders for live data. Several placeholders 302 are shown in FIG. 3. Fig. 4 is an illustration of user template 202 as might be generated from global user template 204 (see Fig. 3) and a user configuration record 206. A full listing of user 30 template 202 is included herewith in Appendix A. Weer template 202 is determined by the user configuration and is independent of the live data, therefore it can be cached without needing to be updated, unless the user chooses to edit the configuration information. Preferably, the user templates 35 are cached rather than the user configuration, to save a step and reduce the time to respond to a request for the page. Caching is more effective where the typical user makes several requests in a short time span and then doesn't make any

requests for a long period of time. Essentially, user template 202 contains the information about the user which does not change until the user changes his or her preferences. Of course, the system 5 operator could choose to make changes to how the system From operates, thus requiring changes to the user preferences and user templates. User template 202 is shown comprising. internal variables such as a time zone and demographic information. The demographic information on the second line 10 in FIG. 4 is used for selection of an advertisement which will be part of the custom page. In this example, the advertisement is targeted by the demographic information in the the user template ":M,85,95035,T; t" indicating that a suitable ad should be targeted to a male user, age 85, clocated in zip 15 code 95035, etc. As shown, the portfolio section contains selected stock symbols, the scoreboard section contains and the selected team, symbols, and the weather section contains selected weather cities/zipucodes. reason part of the forther and The selections of stock quote symbols, team scores; 20 and weather cities are set by the user. In a preferred and it is to embodiment, intelligent defaults are selected by the system (). prior to user selection, so that users unfamiliar with the entry customization process will nonetheless be able to view non empty custom pages ... This is described in further detail below. 25 in connection with FIG. 600 impost this drive database (equipped 19 EFIG 5 is an illustration of a user front page 218 returned by page server 104 ... User, front page 218 as shown in FIG. 5, includes many elements, some of which are described as the here in further detail. User front page 218 is builties to bas 30 according to a user template and live data. The user template of specifies, for example which quotes are shown in the portfolio module, which cities are displayed in the weather module etc. Each of the modules 504 can be customized by a user and moved about front page 218. The modules 504 are also reusable, in 35 that any customized module which appears on multiple pages canbe edited from any one of those pages and the edits will be reflected on each of the pages. Other custom pages for the user can be viewed by selecting one of the page buttons 502

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appearing below the header. Other pages and utilities can be selected using the buttons 508 which are part of the header.

In addition to all of the live date shown in FIG. 5 being stored in the shared memory, summaries from each of the 5 major news topics can also be stored in the shared memory and viewed by pressing on the news topic header, such as news topic header 506. As should be noted, the page generator can also intelligently display dates 510 customized for a particular user, using a time zone variable in the user 0 template. This time zone variable is shown as the first line in user template 202 in FIG. 4. In addition to being able to modify each of the modules, in many cases the order of appearance of the modules is customizable. For example, the order of the various sections of user template 202 shown in

The preference editing process can be initiated by the user pressing the appropriate edit button 512. As explained above, once the editing process is complete, the user template is flushed from the cache and regenerated.

15 FIG. 4 is not fixed to yet fact years to sear the sufficient follows

20 Since each of the news stories is essentially a static page to linked to a headline shown in the news section, these can simply be linked to static pages on a news server.

Referring now to FIG. 6, an illustration of intelligent defaulting for populating a user template, and 25 consequently a user summary page. As part of a registration process, a user indicates, among other things, his or her zip code. This zip code is used to locate an approximate longitude and latitude for the user using a zip code lookup table 602. This allows the user's location to be located on a 30 map 604. Map 604 provides city boundaries and, with team location table 606, also provides locations for various sports teams which can be selected in a sports module. In selecting a default predetermined number of cities and sports teams for inclusion as initial selections for a particular user, a

35 circle is drawn around the user and increased in diameter until the circle envelopes a suitable predetermined number of cities and sports teams. In this way, each user is guaranteed a default number of nearby teams and cities for sports and

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weather, respectively. While this assumes that the user is interested in only the teams nearest the user, the system can be arranged to provide intelligent defaults where geographic anomalies are known to exist. Geographic anomalies occur in 5 communities which have more loyalty to distant teams than nearby teams, such as might occur when the distant team is much better than the nearby team or when the nearby team recently moved to andistant location ... In any case, the user is allowed customize his or her pages, beginning with the 10 intelligent defaults selected. Solder and the selected Other intelligent defaults can be provided in other contexts. For example, the header of user front page 218: includes a button 508 labelled "myweb" which, when pressed, would lead the user to a custom listing of web sites. The 15 initial defaults for that custom listing of web sites might be generated based on the keywords of interest to that user or based on the news topics, sports teams or weather cities selected by the user: a second of the submode is before but to the The above description is illustrative and not 20 restrictive. Many variations of the invention will become apparent to those of skill in the art upon review of this The scope of the invention should, therefore, be determined not with reference to the above description, but instead should be determined with reference to the appended 25 claims along with their full scope of equivalents. off the relation product a disconnection of the mean of year or ಕ್ಷಾಕರ್ ನಗ್ಗಿ ೧೯೯೮ - ಇದರಲ್ಲಿ ೧೦ ರಿಕ್ಕಾಲ್ನಿ (೨೬೩೨೦ ೧೯೪೮ ರಾಖ್ಯೆ) defect from this equity transmitted with equation and the field ស្នាក់ ស្រុកពេល នៅ ស្រុក សុខ ១០% ស្រុចនេះ ខេស្ស សុវីស និងស្រុស្ស នេះប្រែស្រែស និងស្រុស និងស្រុស សុវិស ក្នុងសត្វ រាស់រាស នៅរបស់ ការសាល់ បានសម្រាស់ មួយ នេះ នៅលើមានការប្រជាពី ស្វែងម៉ែន និងមិនប្រជាពី autou nophicov mu មួយ ១០១០១៦១៩៣៦ ១៩៣០ នៅសំខេត្ត ។ monomial to all the control of a major to a major such as in the control of the c ការ ដែលស្ថានទៀត សួន គឺភ្នាស់ ស្រាស់ នេះ បានស្ថាយមេណ៍លោះ ចិក្សាល់ សេសសំខែ សព្វជាតិសេសសុភាពិសេសសភា ing in the parallel straight is the convenience of the contract of the contrac and the section of the electronic only repair and the section of the section of CONTROL BOND CONTROL OF A CONTROL OF A STATE OF A CONTROL ည်း ကို မြန်မာနေတွင် ကို ကို မြန်မာ မြန်မာရှိခဲ့သည်။ မြန်မာနေတွင် နေးမြောက်သော မြန်မာရှိ

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Appendix A. Listing of a User Template

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Appendix B. Listing of a User Page

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WHAT IS CLAIMED IS:

A server system for serving a customized
information page to a user at a browser on request,
 comprising:

a database of user configurations;

means for obtaining information from the user referencing a record in the database of user configurations, the record being a record for the user;

means for generating a template based on the record for the user:

a plurality of user processes, one process per user accessing the server system;

a shared memory;

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a data structure within the shared memory for storing the dynamic information needed to generate the customized information page; and

response means for responding to a request with an information page containing dynamic information from the data 20 structure formatted according to the template generated for the user making the request.

- The server system of claim 1, wherein the plurality of user processes execute on a plurality of servers,
 the server system further comprising a means for assigning one of the plurality of servers to users who send requests to the server system but do not already have an associated user process.
- 30 3. The server system of claim 2, wherein the means for assigning servers is a means for assigning a specific server to a particular user, such that the particular user is assigned the specific server for each request.
- 4. The server system of claim 3, further comprising a cache for caching templates for recently serviced users on each of the specific servers assigned to particular users.

ANTON STORMAN

5. The server system of claim 1, further comprising a cache for caching templates for each y serviced users.

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- 6. The server system of claim 1, further comprising 5 means for generating default user configurations based on user demographic information.
- 7. The server system of claim 6, further comprising means for determining a default list of cities for a weather 10 report and sports teams for sports reporting based on user demographic information.
- 8. The server system of claim 7, wherein the means for determining the default list of cities and default lists 15 of sports teams uses user postal code information, the server system further comprising:

means for translating postal code information-to--- user geographic position;

means for comparing the user geographic position to 20 geographic positions assigned to each city and sports team; and

means for determining a threshold distance from the user geographic position which is greater than or equal to a distance to a predetermined nonzero number of cities and a 25 predetermined nonzero number of sports team geographic positions.

- 9. A method of serving custom news pages, comprising the steps of:
- collecting current security quotes for each of a plurality of selectable securities;

collecting current sports news and scores for each of a plurality of selectable sports events;

collecting current news headlines which reference 35 news articles;

formatting the current security quotes, current sports news and current news headlines into a data structure stored in a shared memory;

in response to the request for a custom page from a user; in response to the request reading a user template for the user from a template database, wherein the user template describes a layout of a custom news page customized 5 for the user; a second region of a custom news page customized

populating a page based on the read-user template and the current data stored in the data structure in the shared memory to form a custom news page; and

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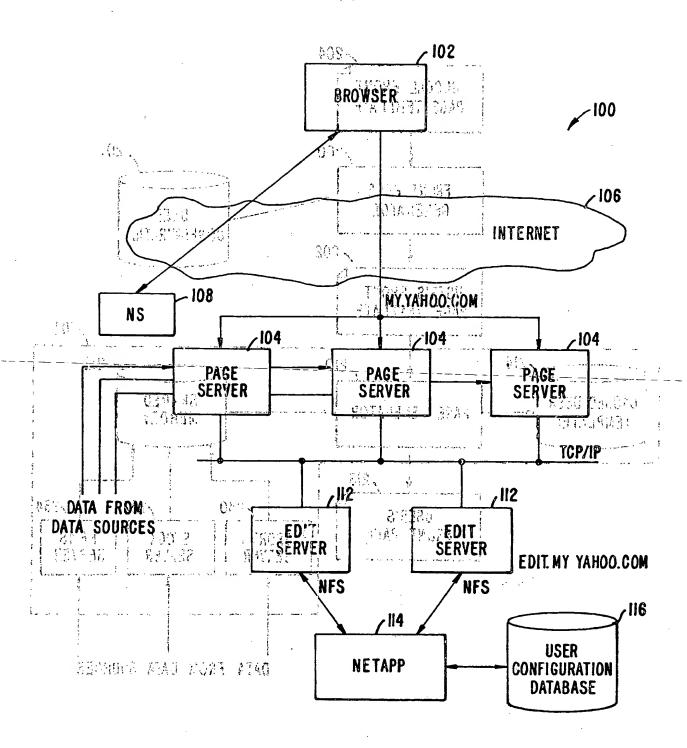


FIG. I.

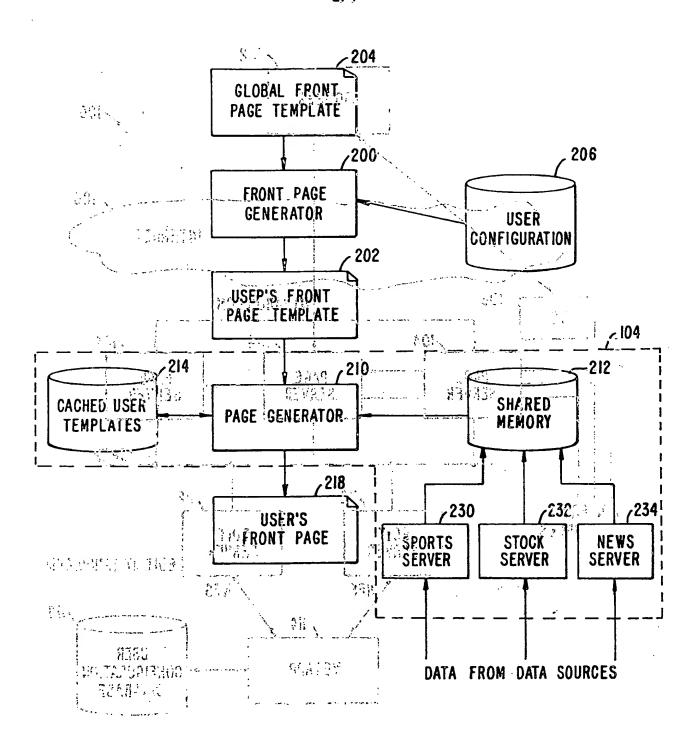


FIG. 2.

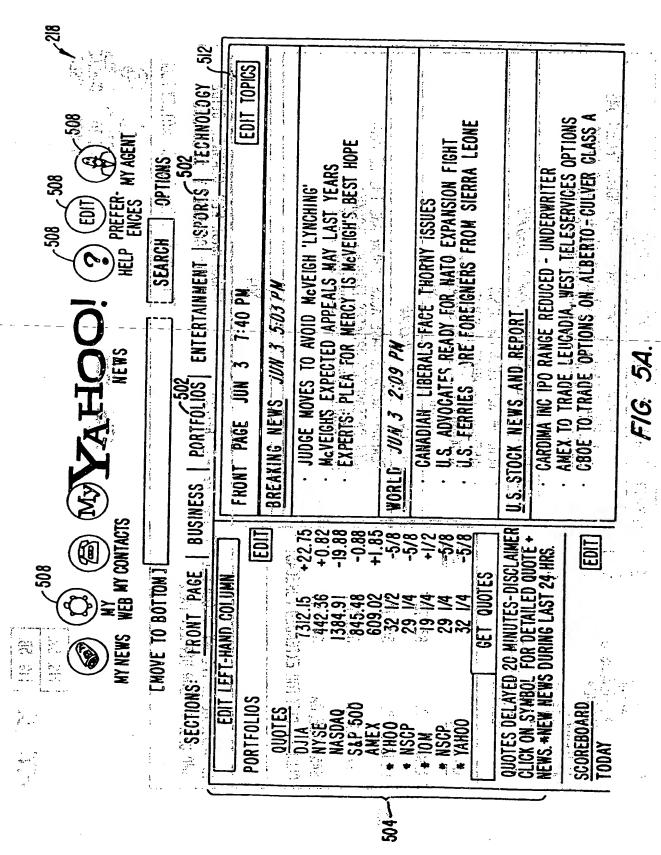
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<html>
<head>
<title>My Yahoo! news summary for <!-- login --></title>
<body>
<center>
<!--banner:sum -->
<!-- ad -->
<!-- nav bar -->)- 302
</center>
~
<!-- leftside:nsum -->)-302
__
<!-- made bar: "FRONT PAGE" -->
<!-- channel:nsum -->
<center>
<!-- motd:motn.html -->
</center>
<!-- search -->
<!-- copyright:sum --
</body>
</html>
```

FIG. 3.

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scoreboard: NCAAFSSC, NHLSAN, MLSSAN, NCAAFSSS, ALOAK, NBAGSW, NFLOAK, NCAAFCCD, NFLSFO ^SPX, ^XAX, YHOO, NSCP, IOM, NSCP, YHOO mode_bar:"FRONT_PAGE",.hier=News+Summary%3aEdit&.done=http://my.yahoo.com/news/summary2:3,rt,rw,z0000,mlb,re,vf 4597 =-> べほらてい (=jathbsqlfeo <!-- weather:f,30901,uk_londo,94601,95101 4368</pre> 'NYA, 'IXIC' portfolio:Quotes, pf_1,1,^DJI <title>My Yahoo! news summary <!-- motd:us_motn.html 4696 ad:M,85,95035,T,* 792 timezone:-8,PT 0 ខេត្ត ដោយវិកម្មភហ ,NLSFO 3803 --> <ht><html></html></h> </pod/> </html> </head> <he>chead> <pod>> 2836 --:> 404 <

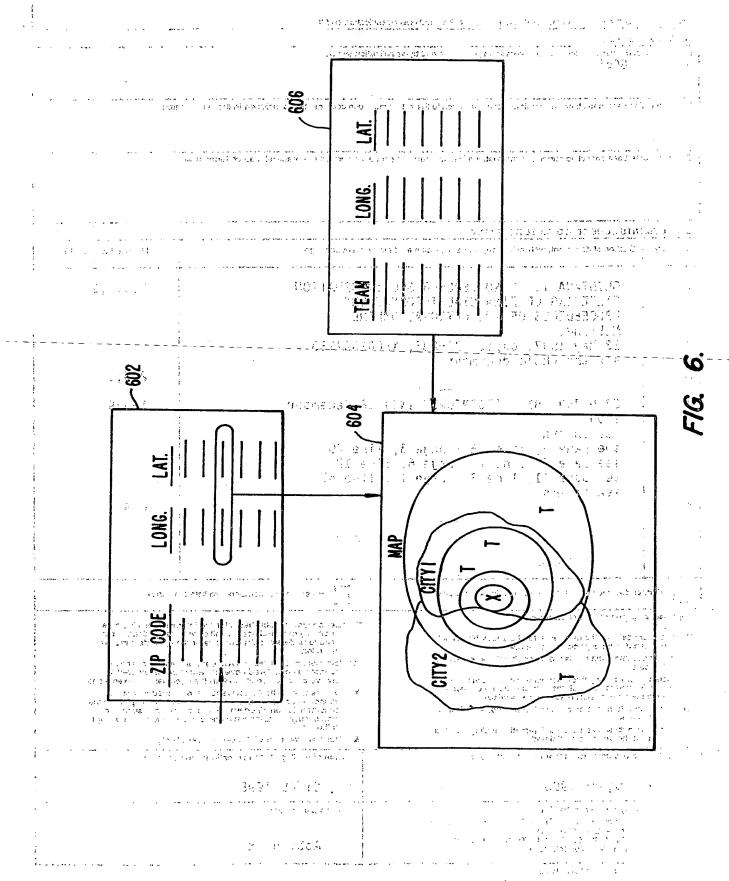


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INTERNATIONAL SEARCH REPORT

national Application No PCT/US 98/09782

A. CLASSIFICATION OF SUBJECT MATTER	V 4
IPC 6 G06F17/30	$\cdot \lambda_i$
According to International Patent Classification (IPC) or to bot	th national classification and IPC
B. FIELDS SEARCHED	
Minimum documentation searched (classification system folio IPC 6 G06F	owed by classification symbols)
:	\ \
Documentation searched other than minimum documentation	to the extent that such documentr are included in the fields searched
Electronic data base consulted during the international search	ch (name of data base and, where practical, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category Citation of document, with indication, where app	propriate, of the relevant passages Relevant to claim No.
QUINTANA Y: "KNOWLEDGE	
FILTERING OF FINANCIAL PROCEEDINGS OF THE NATI	INFORMATION" :
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see page 0, Tine 7 - page 5, Tine 7 - page 5, Tine 7 - page 11, Tine 3 - page 11, Tine 3 - page 5, Tine 7 -	page 11. line 47
see claims	
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Further documents are listed in the continuation of box	Patent far, ily members are listed in annex.
Special categories of cited documents:	T* later document published after the International filing date
A document defining the general state of the art which is not considered to be of particular relevance	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the
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document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another	
citation or other special reason (as specified) or document referring to an oral disclosure, use, exhibition o	cannot be considered to involve antique the eten when the
other means document published prior to the international filing date but	ments, such combination being obvious to a person skilled
later than the priority date claimed	"å" document member of the same patent family
ate of the actual completion of theinternational search	Date of mailing of the International search report
19 August 1998	01/09/1998
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European Patent Office, P.B. 5818 Patentlaar NL - 2280 HV Rijswijk	i i
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Abbing, R

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	J.A.: "The Fishwrap personalized news system" PROCEEDINGS OF THE 2ND INTERNATIONAL WORKSHOP ON COMMUNITY NETWORKING INTEGRATED MULTIMEDIA SERVICES IN THE HOME, 20 - 22 June 1995, pages 275-282, XP002074902 Princeton, NJ, USA see page 275, column 1, line 42 - page 276, column 1, line 11 see page 277, column 2, line 29 - page 279, column 1, line 6		1,6-9	
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	MO	9717662	Α	15-05-1997		5740430 7721496			4-1998 5-1997
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